

Title (en)
LIGHT-EMITTING DIODE COMPRISING AN ACTIVE LAYER OF 2,5-SUBSTITUTED POLY(P-PHENYLENE VINYLENE)

Title (de)
LICHEMITTIERENDE DIODE MIT EINER AKTIVEN SCHICHT AUS 2,5-SUBSTITUIERTEM POLY(P-PHENYLEN-VINYLEN)

Title (fr)
DIODE A LUMINESCENCE COMPRENANT UNE COUCHE ACTIVE DE POLY(PHENYLENE-VINYLENE) SUBSTITUE EN POSITION 2 ET EN POSITION 5

Publication
EP 0714556 A1 19960605 (EN)

Application
EP 95915996 A 19950510

Priority

- EP 95915996 A 19950510
- EP 94201419 A 19940519
- IB 9500345 W 19950510

Abstract (en)
[origin: WO9532526A1] A description is given of a LED comprising an active layer of novel, conjugated 2,5-alkyl-substituted poly(p-phenylene vinylene) compounds having a repeating unit (I). Said LED emits green light. In these polymers, R1 represents a C10-C12 alkyl group and R2 represents a C1-C4 alkyl group. These polymers can readily be dissolved in organic solvents, so that an active layer can be manufactured in a simple manner by means of spin coating.

IPC 1-7
H01L 33/00; C08G 61/02

IPC 8 full level
C08G 61/00 (2006.01); **C08G 61/02** (2006.01); **C09K 11/06** (2006.01); **H01L 33/00** (2010.01); **H01L 33/26** (2010.01); **H01L 33/42** (2010.01); **H01L 51/30** (2006.01); **H01L 51/50** (2006.01); **H05B 33/12** (2006.01); **H05B 33/14** (2006.01)

CPC (source: EP)
C08G 61/02 (2013.01); **C09K 11/06** (2013.01); **H10K 50/11** (2023.02); **H10K 85/114** (2023.02)

Citation (search report)
See references of WO 9532526A1

Cited by
US9739428B1; US9746139B2; US9752736B2; US9759392B2; US9777893B2; US9803806B2; US9970601B2; US10260686B2; US8377570B2; US10342086B2; US10973094B2; US10036549B2; US10571115B2; US11073275B2; US10161568B2; US10690296B2; US11028972B2; US11428370B2; US9635727B2; US10182480B2; US10560992B2; US10932339B2; US11333308B2; US9807842B2; US10054270B2; US10176689B2; US10557593B2; US10713915B2; US10966295B2

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
WO 9532526 A1 19951130; DE 69507437 D1 19990304; DE 69507437 T2 19990708; EP 0714556 A1 19960605; EP 0714556 B1 19990120; JP H09501022 A 19970128

DOCDB simple family (application)
IB 9500345 W 19950510; DE 69507437 T 19950510; EP 95915996 A 19950510; JP 53016695 A 19950510